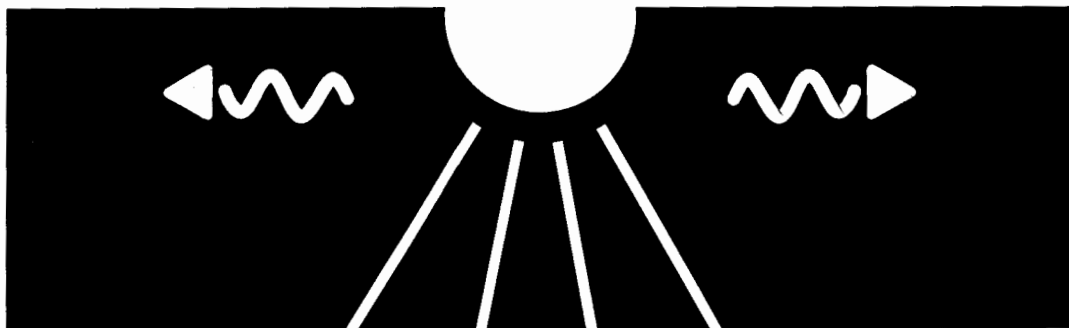


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# RadioRA®



Wireless Home Lighting Control

## **RA-DZS-200A/24 Timeclock**

### **Setup and Installation Guide**

### **For RadioRA® Timeclock**

A Comprehensive Step-by-Step Guide for Programming  
and Operating the Lutron RadioRA® Timeclock

**Note:** Please leave this manual with homeowner.

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**English**

P/N 044-023

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## Consumer Information

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This symbol is intended to alert the user to the presence of important installation and operating instructions.

### **Warning**

This RadioRA® system must not be used to control equipment, other than lighting, which is **not visible** from every master or local control location. It also must not be used to control equipment which could create hazardous situations such as entrapment if operated accidentally. Examples of equipment which must not be controlled by this RadioRA® system when **not visible** from a Multi-Function Entry Master Control or local control location include (but are not limited to) motorized gates, garage doors, industrial doors, and microwave ovens, heating pads, etc. It is the installer's responsibility to ensure that the equipment, other than lighting, being controlled is **visible** from every master or local control location and that only suitable equipment is connected to this RadioRA® system.

### **FCC Information**

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

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# Setting up the Timeclock

## Definitions and Modes

### Definitions you need to know

**Astronomic** - Astronomic is an event that programs a specific action as per sunrise and sunset.

**Schedule** - Schedule is an event that programs a specific action for a specified time.

**Event** - Event is a specific programmed time. Events can be programmed to one time, everyday, every weekday, or any combination of dates. 10:00AM is one event and 10:01AM would be another. Up to 99 events can be programmed to this time clock.

**Season** - Season is an operation period defined by a start date and a stop or end date. A season does not activate an event, but sets the time period that a Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, or Holiday event will happen.

**During a season, only the events programmed with that current season will activate. All other events are disabled.** There are 4 seasons available.

**Holiday** - Holiday is a **one-day, non-repeating** time used like Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday which repeats weekly.

**During Holidays only events programmed as a Holiday will activate. Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday events are disabled.**

**Channel** - An individual relay output from the timeclock. There are 2 channels outputs available.

**Signal** - Pulse signal for momentary operation set between 1 and 99 seconds.

**Note:** In any of the program modes, if no entry is made for five minutes, the unit will go out of program mode and changes will be discarded. You must press **ENTER** to save any changes to the settings.

By pressing the **MODE** button you can jump through the 9 different functions of the timeclock. The 9 modes are:

MODE	FUNCTION	EXAMPLE SCREEN
Clock	• Setup or modify current hour	
Time	• Setup or modify current time	
Date	• Setup or modify current date	
DST	• Turn ON or OFF automatic daylight savings adjustment	
Season	• Setup or modify start and stop dates for up to 4 seasons	
Holiday	• Program dates for 24 holidays	
Signal	• Program duration of channel output pulse.	
Schedule	• Program standard events	
Astro	• Program astronomic events	
Run	• Normal running for time clock operation	

# Setting up the Timeclock

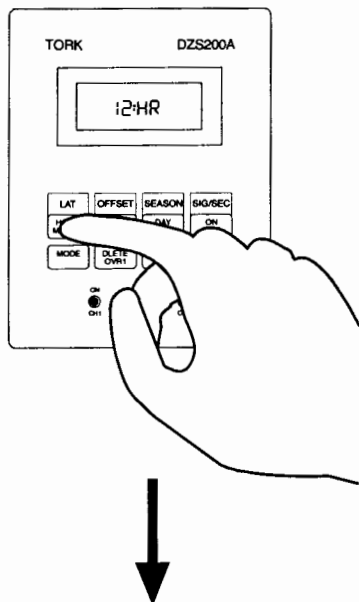
## Setting the Clock, Time, Date, and Daylight Savings

Read all instructions completely before installation.

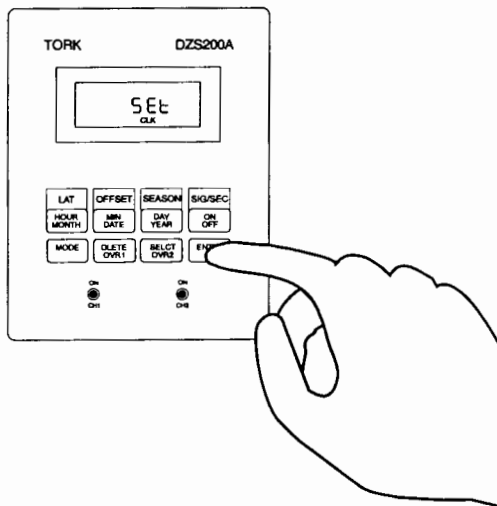
### Step 1 Set the Clock

At first time power-up, display shows 12 HR. This is the default setting.

**Note:** If screen shows 24 HR, press the **HOUR** button so that 12 HR appears.

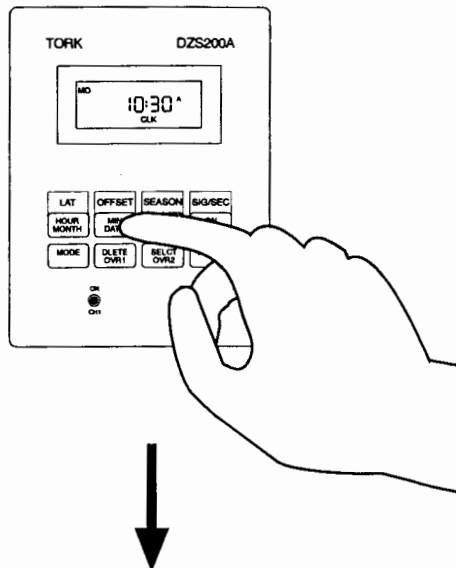


Press the **ENTER** button to save and advance to Set Current Time.

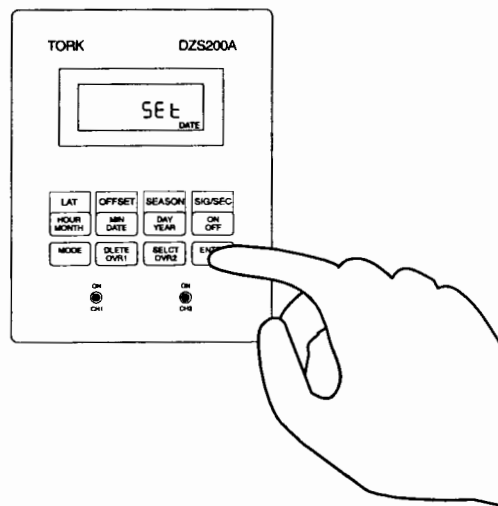


### Step 2 Set Current Time

Press the **HOUR**, **MIN**, or **DAY** buttons to set the time (**HOUR** to advance hours, **MIN** to advance minutes, **DAY** to advance days).



Press the **ENTER** button to save and advance to Set Current Date.

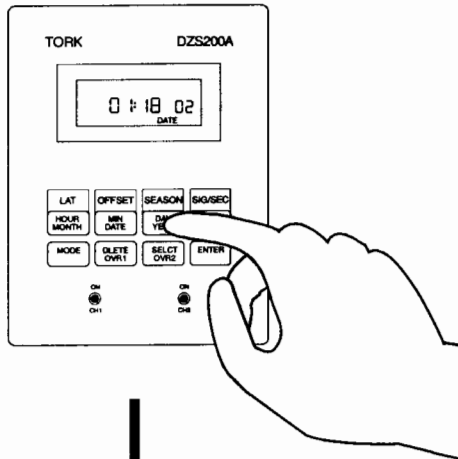


# Setting up the Timeclock

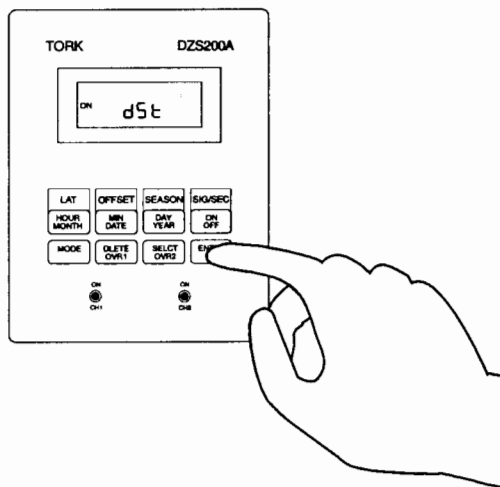
## Section 1 - Setup

### Step 3 Set Current Date

Press the **MONTH**, **DATE**, or **YEAR** buttons to set the date. (**MONTH** to advance months, **DATE** to advance day, **YEAR** to advance year).

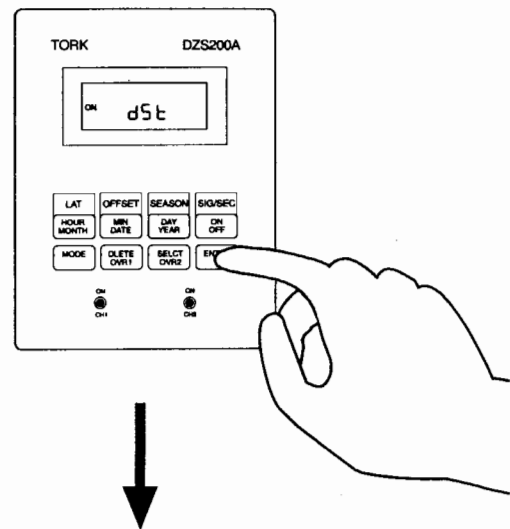


Press the **ENTER** button to save and advance to Set Daylight Savings.

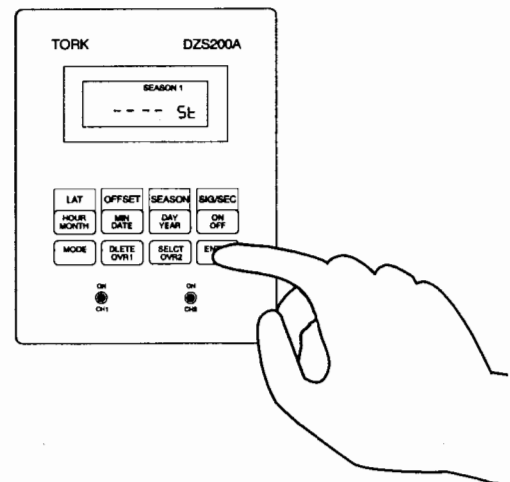


### Step 4 Set Daylight Savings

**Note:** By default the unit is set to ON for automatic Daylight Saving adjustment. To disable, complete this step or press the **Enter** button to continue. To turn off Daylight Saving, press the **ON/OFF** button.



Press the **ENTER** button to save and advance to Set Seasons or press the **MODE** button to bypass Set Seasons.



# Programming the Timeclock

## Setting Seasons

Season is an operation period defined by a start date and a stop or end date. A season does not activate an event, but sets the time period that a Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, or Holiday event will happen. **During a season, only the events programmed with that current season will activate. All other events are disabled.** There are 4 seasons available.



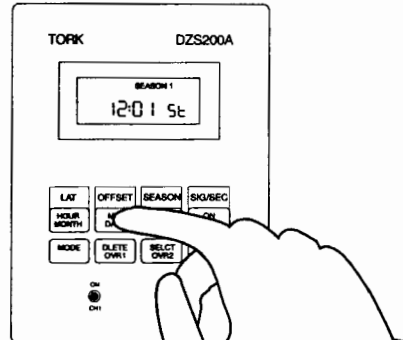
**Warning: Using Seasons can effect other programming.** All events programmed with Seasons will only engage during that Season and will ignore Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, or Holiday programming outside the Season dates. During a Season time, only events programmed with that Season will occur. To bypass the Season setup press the **MODE** button.

### Notes:

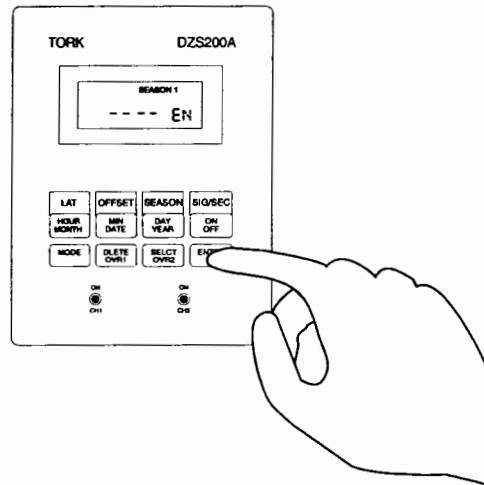
- You can set up to four different seasons.
- Season durations are set by starting MONTH/DAY and ending MONTH/DAY.
- Each season can be set for up to 364 days.
- A season can start in the current year and end in the next year.
- When two or more seasons overlap, the higher numbered season has priority.

## Step 1 Begin Setting Seasons

Press the **MONTH** and **DATE** buttons to set starting month and day for Season 1.



Press the **ENTER** button to save setting and advance to set ending month and day.

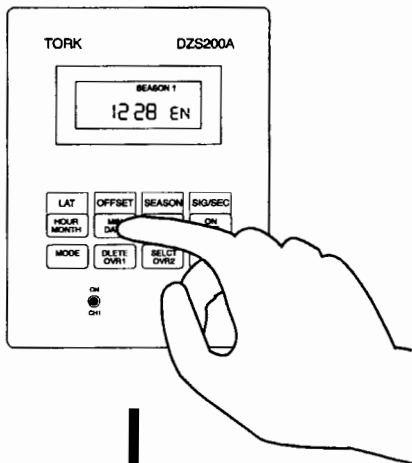


• Continued on next page.

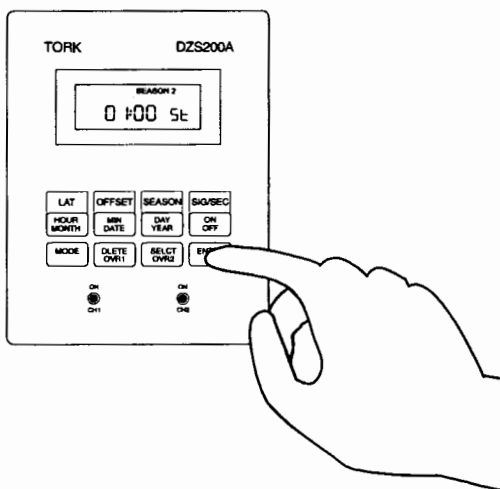
# Programming the Timeclock

## Step 2 Set up Month and Date

Press the **MONTH** and **DATE** buttons to set ending month and day for season 1.

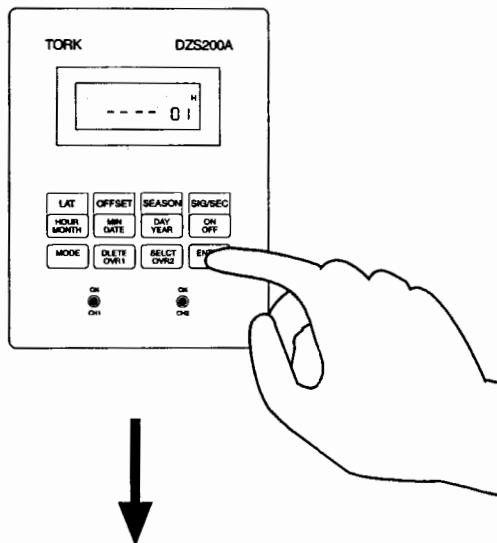


Press the **ENTER** button to save settings and advance to the next season.

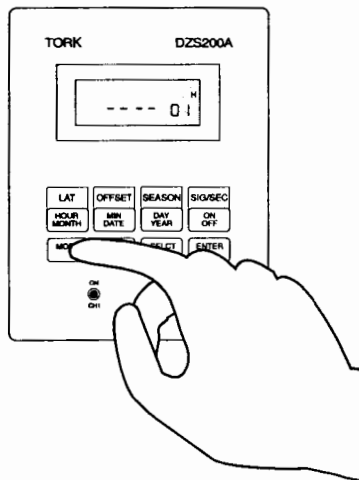


## Step 3 Complete Setting Seasons

Set the start and end for other seasons if desired. Advance through the seasons by pressing the **ENTER** button and continue programming for additional Seasons.



Press the **MODE** button to exit and advance to Holiday Programming.



Use the **DLETE** button to modify settings. Press the **ENTER** button to confirm changes.



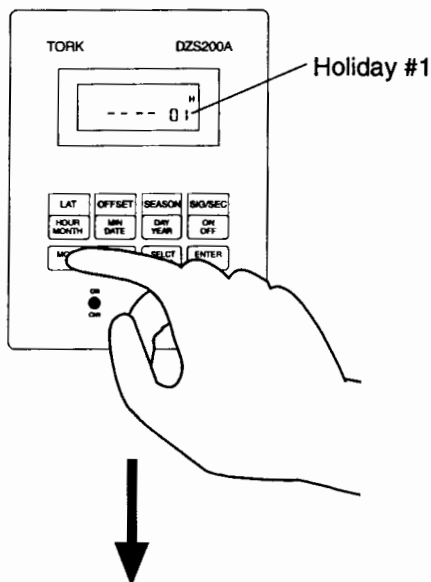
# Programming the Timeclock

## Holiday Programming

Holiday Programming is one of the components of a schedule event and is used like Monday, Tuesday, etc. Holiday Programming does not constitute an event itself. Holiday Programming is not needed for most RadioRA® programming. A holiday is a 24 hour day and there are a total of 24 individual holidays that can be set by specifying the MONTH and DATE. During a holiday, only events programmed to that holiday will be activated.

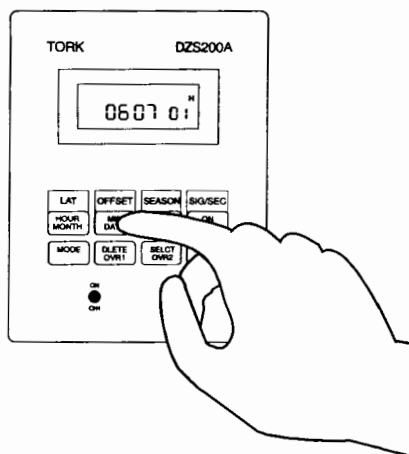
### Step 1 Begin Holiday Programming

Press the **MODE** button to show the display for Holiday #1.



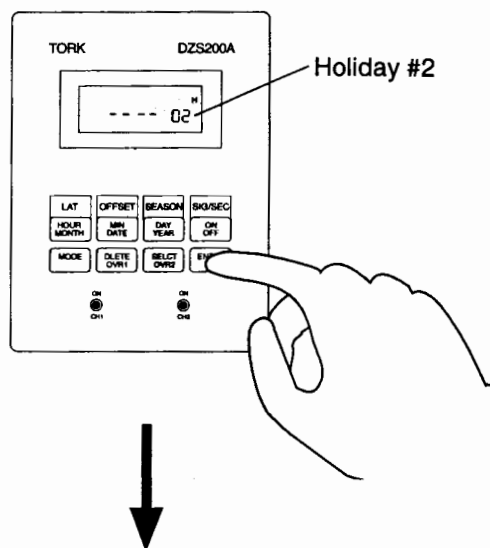
### Step 2 Set up Month and Date

Press the **MONTH** button to advance month, press the **DATE** button to advance date.

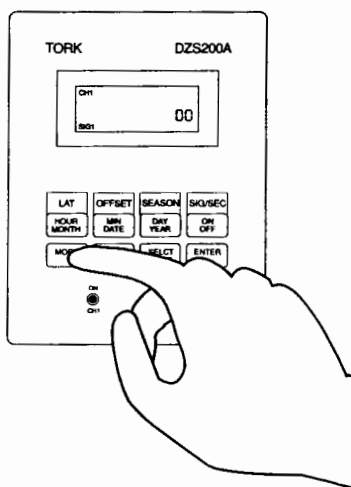


### Step 3 Complete Holiday Programming

Press the **ENTER** button to save setting and continue programming for additional holiday settings.



Press the **MODE** button to save and advance to Signal Programming.



Use the **DLETE** button to modify settings. Press the **ENTER** button to confirm changes.

# Programming the Timeclock

## Signal Programming

Signal programming is one of the components of a schedule event and does not constitute an event itself. Programming any signal except 00 will require momentary programming for the RadioRA® Switch Closure Interface (RA-SCI) or Multifunction Entry Master Control (RAMC-MFE).

Setting signal duration allows you to pulse the signal for a set period of time less than 1 minute. For instance, setting any signal on a channel to 03 seconds will give a MOMENTARY Input to the RadioRA® Switch Closure Interface or Multifunction Entry Master Control from that channel. If all signal durations for a specific channel are set to 00 the output from that channel will be an ON or OFF event. Channel ON or OFF events will give a MAINTAINED Input to the RadioRA® Switch Closure Interface or Multifunction Entry Master Control from that channel.

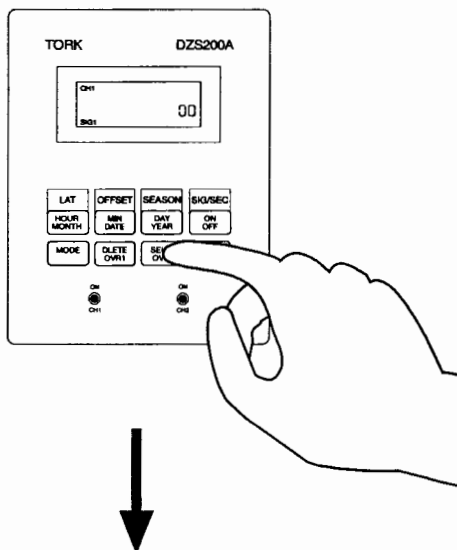
If an output channel is configured as MOMENTARY, every time an event happens on that channel, the lights will turn ON. If an output channel is configured as MAINTAINED, each event has the option of turning lights ON or OFF.

### Notes:

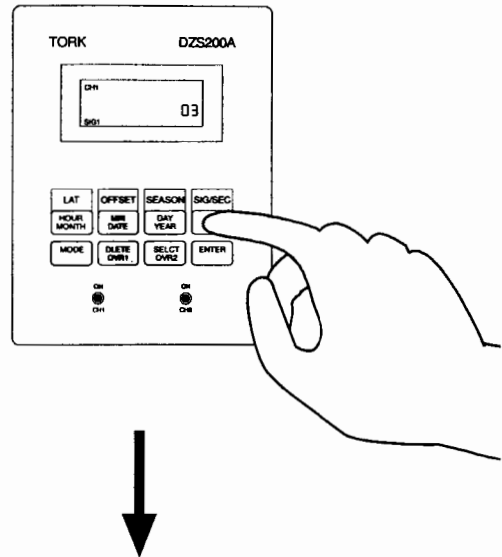
- The signal is set to 00 seconds for both channels by default. If you do not require any changes to signal duration, advance to the next section.
- Signal 1 and 2 can be set up to 99 seconds combined time.
- The signal will not affect astronomic programming.

### Step 1 Begin Signal Programming

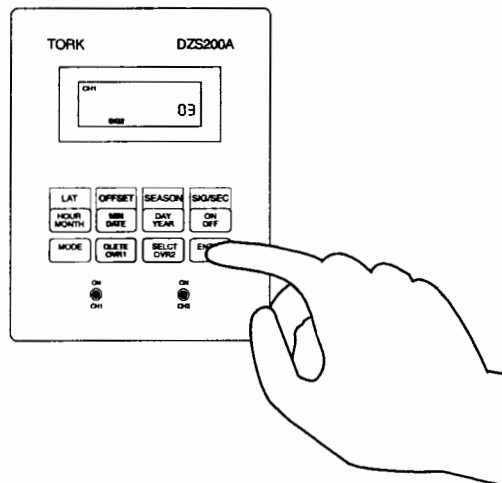
Switch the desired channel (CH1 or CH2) by pressing the **SELCT** button.



Press the **SIG/SEC** button to set SIG1 duration for the selected channel.



Press the **ENTER** button to save setting for SIG1 and advance to SIG2 (optional).

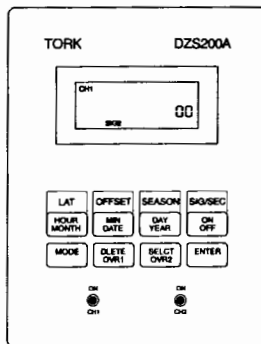


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# Programming the Timeclock

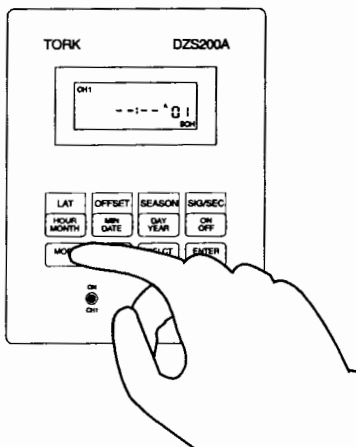
## Step 2 Set up SIG2

If you do not set SIG2 duration (leaving it 00 seconds), make sure you never assign SIG2 in the scheduling as it will act as a constant ON event for that channel. Otherwise follow the same procedures in Step 1 to set up SIG2.



**Note:** SIG2 should not be used when connecting to a RadioRA® system. Set SIG2 to 00.

Press the **ENTER** button to save setting and then press the **MODE** button to exit and advance to Schedule Programming.



- Repeat Steps 1 and 2 for remaining output channels by pressing the SELCT button.



Use the **DELETE** button to modify settings. Press the **ENTER** button to confirm changes.

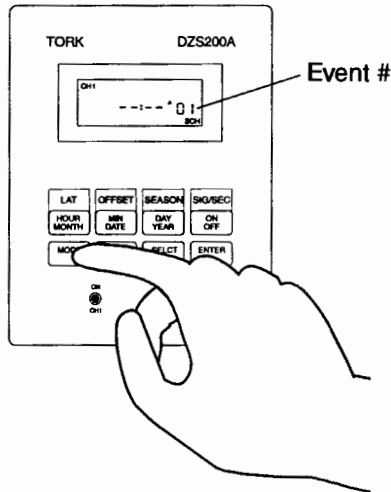
# Programming the Timeclock

## Schedule Programming

A schedule is an event that programs a specific action for a channel at a specified time period.

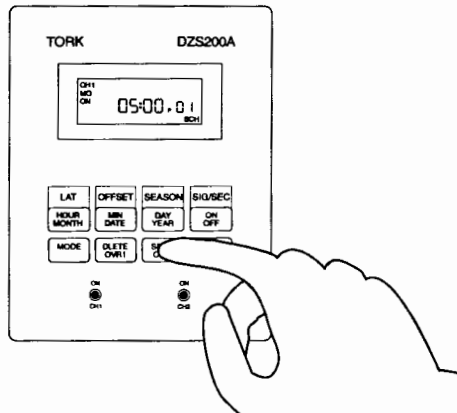
### Step 1 Begin Schedule Programming

Press the **MODE** button until Event # is displayed .



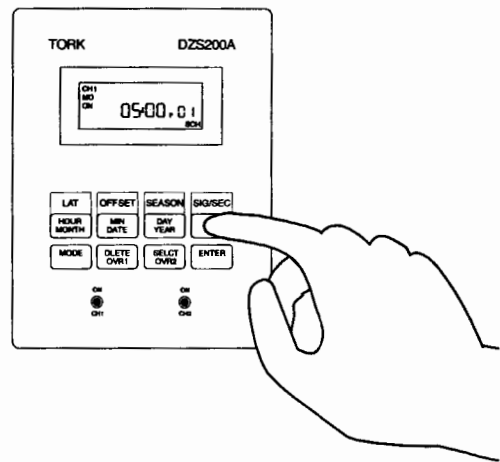
### Step 2 Set up Channel, Hour, and Minutes

Press the **SELCT** button to toggle between CH1 and CH2. When desired channel flashes, begin setting hours and minutes using the **HOUR** and **MIN** buttons respectively.



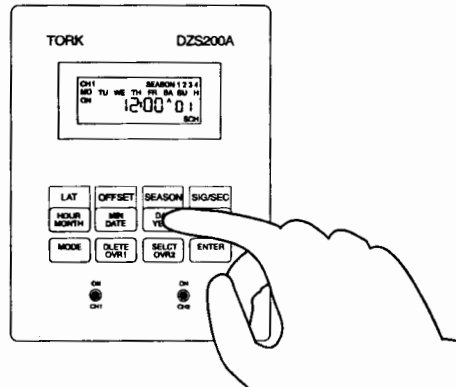
### Step 3 Set up time ON/OFF and SIG/SEC

If the channel selected is being used for time ON or time OFF, press the **ON/OFF** button to desired setting OR If channel selected is being used as a signal timer, press the **SIG/SEC** button to set for SIG1 or SIG2. (Refer to Signal Programming on page 10.)



### Step 4 Set up Days, Holiday, and Seasons

Press the **DAY** button to step through the day, holiday or season. Select the desired days, holiday, and seasons by pressing the **SELCT** button to select the flashing day, holiday or season.



• Continued on next page.

# Programming the Timeclock

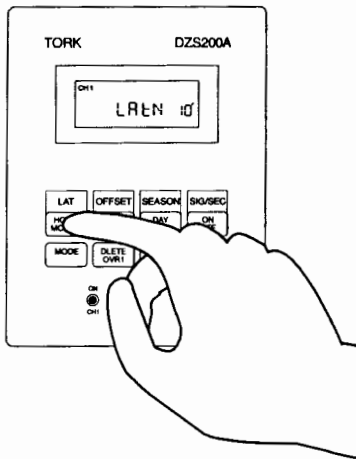
## Astronomic Programming

An astronomic schedule allows you to schedule events for sunrise and sunset as opposed to specifying a set time as in schedule mode. Since sunrise and sunset times vary seasonally, this feature is convenient for setting year round schedules.

### Step 1 Begin Astronomic Programming

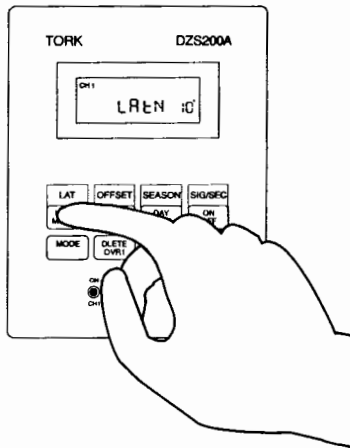
Press the **MODE** button until display shows LATN 10°.

**Note:** Unit can be used only between 10-60 degrees North or South. By default, latitude north 10 degrees will appear on display.



### Step 2 Set up Latitude

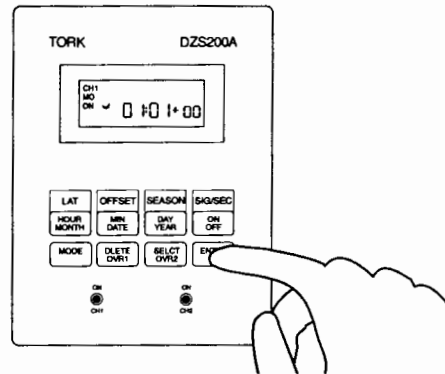
Press the **LAT** button to search for local latitude. See Latitude Map on page 26 for your local latitude setting (this will also change North and South).



### Step 3 Select Channel

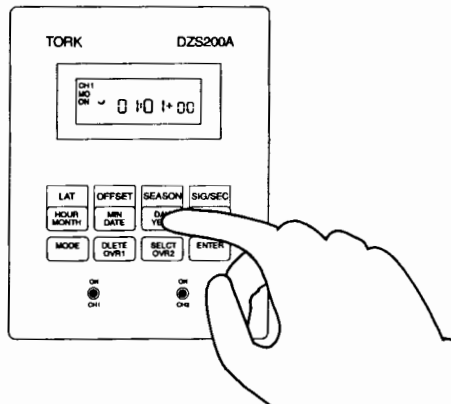
Press the **SELCT** button to choose between channel 1 or 2. The channel being programmed will appear in the upper left corner of the display. Press the **ENTER** button to save settings and advance to Set up Days, Holidays, and Seasons.

**Note:** Astro Programming can only be programmed ON, OFF or MAINTAINED. Sunset can only be programmed to ON and Sunrise can only be programmed to OFF.



### Step 4 Set up Days, Holidays, and Seasons

Press the **DAY** button to step through day, holiday or season. Select the desired days, holidays, and seasons by pressing the **SELCT** button to select the flashing day, holiday or season.

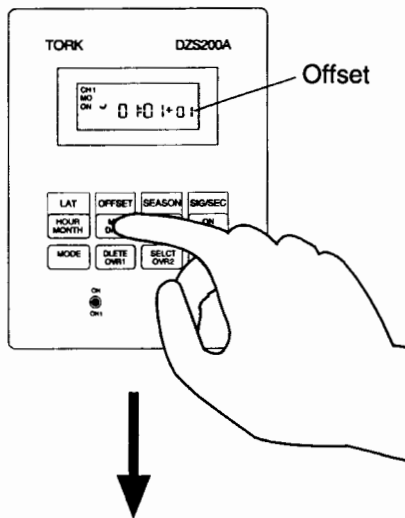


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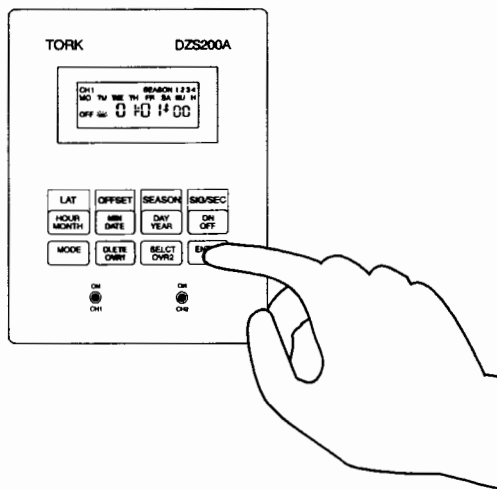
# Programming the Timeclock

## Step 5 Set up Sunset

Use the **OFFSET** button to specify when you want the channel to come ON. A + (plus) sign before the last two digits indicates that the load comes ON that many minutes **after** sunset. A - (minus) sign indicates that the load comes ON that many minutes **before** sunset (up to 99 minutes).

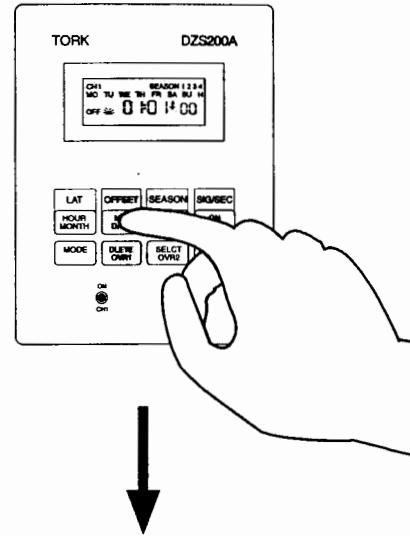


Press the **ENTER** button to save settings and advance to Set up Sunrise.

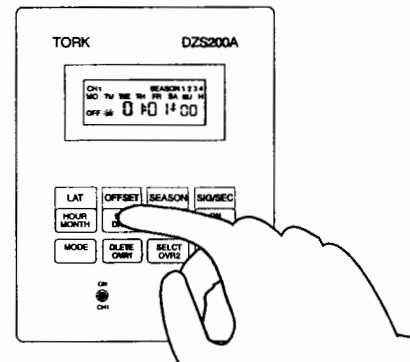


## Step 6 Set up Sunrise

Unlike all other programming, Sunrise is preprogrammed for all days, seasons, and holidays.



Use the **OFFSET** button to specify when you want the channel to come ON. A + (plus) sign before the last two digits indicates that the load comes ON that many minutes **after** sunrise. A - (minus) sign indicates that the load comes ON that many minutes **before** sunrise (up to 99 minutes).

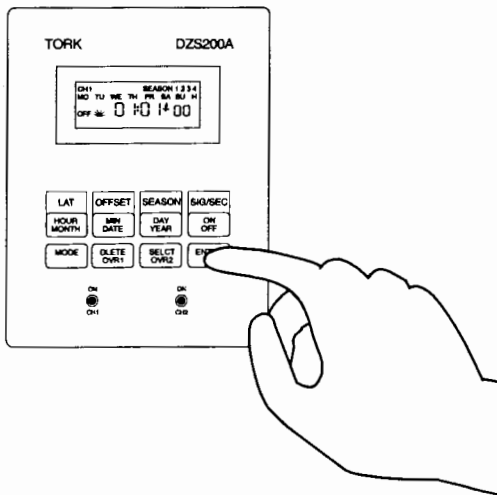


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# Programming the Timeclock

## Step 7 Complete Astronomic Programming

Press the **ENTER** button to save settings or press the **MODE** button to exit and advance to Normal Operation (RUN MODE).

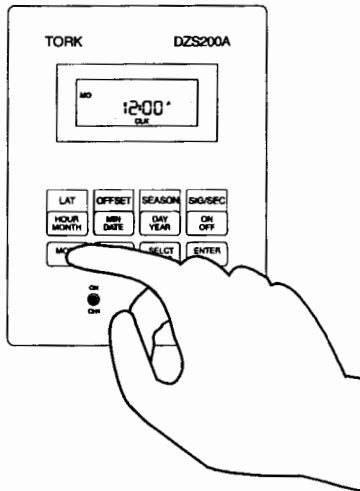


# Programming the Timeclock

## Normal Operation (RUN MODE)

### Step 1 Set up Normal Operation (RUN MODE)

The timeclock must be in RUN MODE for events to occur. From any mode press the **MODE** button until the display shows day, time, and A (AM) or P (PM).





# Advanced Settings

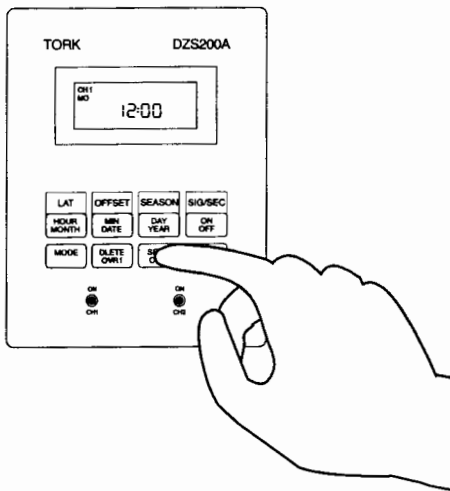
## Override Settings

**Note:** Override can be used to test functionality for the RadioRA® Switch Closure Interface (RA-SCI) or Multifunction Entry Master Control (RAMC-MFE). Press the OVERRIDE button and verify the lights programmed to the corresponding input turns ON or OFF as expected.

### Override

**NOTE:** OVR1 and OVR2 (**OVERRIDE** buttons) are effective only in the RUN MODE.

- Use the **OVR1** and **OVR2** buttons to override signal duration for channel 1 and channel 2 respectively.
- If the channel is scheduled for ON/OFF operation, then using **OVERRIDE** will change the channel status of the selected channel until the next scheduled event. **The channel number will flash** when load is overridden from scheduled event.
- If the channel is a signal timer, then the load will turn on each time the **OVERRIDE** button is pressed for the length of signal duration. **The channel number will flash while the load is on.**
- While the signal is in progress, it can be terminated by using the **OVERRIDE** button.



**RUN MODE** is the only mode that override on both channels will work.

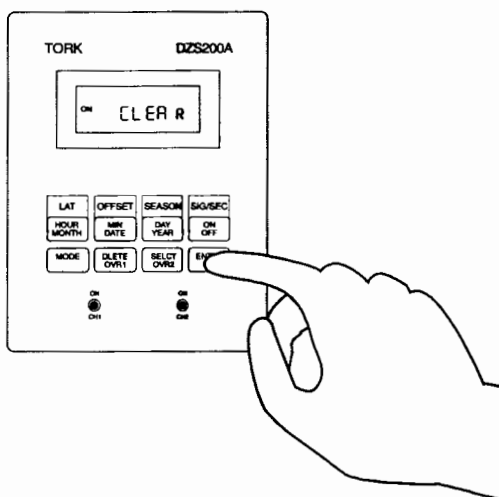
## Advanced Settings

### Clearing the Memory

#### Clearing the Memory

**STOP: THIS PROCEDURE WILL CLEAR ALL TIMECLOCK PROGRAMMING. ADVANCE WITH CAUTION.**

- While in RUN MODE, press **ENTER** button. Display should show CLEAR.
- Use the **ON/OFF** button to set ON.
- Press **ENTER** briefly to wipe off timer memory, including real time and date.



# Examples

## Example 1 Basic Schedule

Turning ON the lights at 5:00PM and switching them OFF at 11:00PM using channel 1 Monday and Thursday.

- Press **MODE** button to enter Schedule Mode.
- Press **ENTER** until a free event is found.
- Press the **SELCT** button to toggle between CH1 and CH2. Select CH1.
- Setting hours and minutes, for time to turn ON lights, using the **HOUR** and **MIN** buttons respectively (for this example, 5:00PM).
- Press the **DAY** button to select Monday and Thursday.
- Press the **SELCT** button on the flashing MO and TH to select those days of the week.
- Press the **DAY** button to pass the flashing day, holiday or season.
- Press the **ENTER** button to save settings and move to the next free event.
- Press the **SELCT** button to toggle between CH1 and CH2. Select CH1.
- Setting hours and minutes. For time to turn OFF lights, using the **HOUR** and **MIN** buttons respectively (for this example, 11:00PM).
- Press the **DAY** button to select Monday through Sunday.
- Press the **SELCT** button to select the flashing MO and TH to select those days of the week.
- Press the **DAY** button to pass the flashing day, holiday or season.
- Press the **ENTER** button to save settings.
- Press the **MODE** button until returned to RUN MODE.

## Example 2 Using Astronomic

Turning ON the lights an hour before sunset every day and switching them OFF at sunrise on channel 1.

- Press the **MODE** button to enter Astro Mode.
- Press the **SELCT** button to toggle between CH1 and CH2.
- If latitude is not set to your locality press the **LAT** button until degrees show proper latitude.
- Press the **ENTER** button to save settings.
- Press the **DAY** button to select Monday through Sunday.
- Press the **SELCT** button to select the flashing MO, TU, WE, TH, FR, SA, SU to select those days of the week.
- Press the **DAY** button to pass the flashing day, holiday or season.
- Use the **OFFSET** button to specify for when you want the load to come ON before sunrise or before sunset (in this case, -60 minutes before Sunset).
- Press the **ENTER** button to save settings.
- The sunrise offset should be 00, if not, use the **OFFSET** button to advance.
- Press the **ENTER** button to save settings.
- Press the **MODE** button until returned to RUN MODE.

## Example 3 Using Signal

Only turn ON the landscape lights at 9:00PM weekdays using channel 2, MOMENTARY Input.

- Press the **MODE** button to enter SIGNAL MODE.
- Press the **SELCT** button to toggle between CH1 and CH2 (select CH2).
- Press the **SIG/SEC** button to set SIG2 duration (set to 03).
- Press the **ENTER** button to save setting.
- Press the **MODE** button to enter SCHEDULE MODE.
- Press the **ENTER** button to go to a blank event.
- Press the **SELCT** button until CH2 is flashing.
- Setting hours and minutes, for time to turn ON lights, using the **HOUR** and **MIN** buttons respectively (for this example, 9:00PM).
- Press the **DAY** button to select Monday through Friday.
- Press the **SELCT** button to select the flashing MO, TU, WE, TH, FR to select those days of the week.
- Press the **DAY** button to pass the flashing day, holiday or seasons.
- Press the **ENTER** button to set.
- Press the **MODE** button until returned to RUN MODE.

# Examples

## Example 4 Using Seasons

Turn ON outside Holiday lights between December 1<sup>st</sup> and December 28<sup>th</sup> at 8:00PM using channel 1. Use MAINTAINED or ON, OFF mode for this example.

- Press the **MODE** button to enter Season Mode.
- Press the **MONTH** and **DATE** buttons to set start date (for this example, 12 01 for December 1<sup>st</sup>).
- Press **ENTER** to save settings.
- Press **MONTH** and **DATE** buttons to set stop date (for this example, 12 28 for December 28<sup>th</sup>).
- Press **ENTER** to save settings.
- Make sure SIG1 and CH1 are set to 00. If not, press the **SIG/SEC** button to SIG1 duration for channel 1.
- Press the **ENTER** button to save settings.
- Press the **MODE** button to enter Schedule Mode.
- Press the **SELCT** button until CH1 flashes.
- Press hours and minutes, for time to turn ON lights, using the **HOURL** and **MIN** buttons respectively (for this example, 8:00PM).
- Press the **ON/OFF** button to set signal to the ON state.
- Press the **DAY** button until Season 1 begins to flash.
- Press the **SELCT** button to set Season 1.
- Press the **ENTER** button to save settings.
- Press the **MODE** button until returned to RUN MODE.

## Example 5 Using Holiday

Turning on the driveway lights for a party on June 7<sup>th</sup>. Lights are connected to channel 2. Use MOMENTARY Input for this season.

- Press the **MODE** button to enter Holiday Mode.
- Press the **MONTH** button to advance to desired month (for this example, 06 for June).
- Press the **DATE** button to advance to desired date (for this example, 07).
- Press the **ENTER** button to save setting.
- Press the **MODE** button to enter Signal Mode.
- Switch to **CH2** by using the **SELCT** button.
- Make sure SIG1 on CH2 is set to 02. If not, press the **SIG/SEC** button to set SIG1 duration for CH1.
- Press the **ENTER** button to save setting.
- Press the **MODE** button to enter Schedule Mode.
- Press **ENTER** button to go to a free event.
- Press the **SELCT** button to toggle between CH1 and CH2. When CH2 starts flashing begin setting hours and minutes using the **HOURL** and **MIN** buttons respectively (for this example, 6:30PM).
- Press the **DAY** button until the H begins to flash.
- Press the **SELCT** button to set Holiday.
- Press the **ENTER** button to set.
- Press the **MODE** button until returned to RUN MODE.

# Timeclock Programming Sheet

Event Number	Event Name	(Select 1) Channel 1 Channel 2	(Select 1) Time Sunrise Sunset	Check box below for appropriate periods												(Select 1) ON OFF SIG1 SIG2	(Select 1) SCI Input MAINTAINED MOMENTARY	
				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	Season 1	Season 2	Season 3	Season 4			
OT	Example 1	CH1	5:00PM	X			X										ON	MAINTAINED
OU	Example 1 cont.	CH1	11:00PM	X			X										OFF	MAINTAINED
OV	Example 2	CH1	Sunset - 1 hour	X	X	X	X	X	X	X							ON	MAINTAINED
OW	Example 2 cont.	CH1	Sunrise	X	X	X	X	X	X	X							OFF	MAINTAINED
OX	Example 3	CH2	9:00PM	X	X	X	X	X									SIG2	MOMENTARY
OY	Example 4	CH1	8:00PM											X			ON	MAINTAINED
OZ	Example 5	CH2	6:30PM									X					SIG1	MOMENTARY
01																		
02																		
03																		
04																		
05																		
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07																		
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20																		

# Timeclock Programming Sheet

Event Number	Event Name	(Select 1) Channel 1 Channel 2	(Select 1) Time Sunrise Sunset	Check box below for appropriate periods											(Select 1) ON OFF SIG1 SIG2	(Select 1) SCI Input MAINTAINED MOMENTARY	
				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	Season 1	Season 2	Season 3			Season 4
21																	
22																	
23																	
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# Timeclock Programming Sheet

Event Number	Event Name	(Select 1) Channel 1 Channel 2	(Select 1) Time Sunrise Sunset	Check box below for appropriate periods											(Select 1) ON OFF SIG1 SIG2	(Select 1) SCI Input MAINTAINED MOMENTARY	
				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	Season 1	Season 2	Season 3			Season 4
48																	
49																	
50																	
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# Timeclock Programming Sheet

Event Number	Event Name	(Select 1) Channel 1 Channel 2	(Select 1) Time Sunrise Sunset	Check box below for appropriate periods											(Select 1) ON OFF SIG1 SIG2	(Select 1) SCI Input MAINTAINED MOMENTARY	
				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	Season 1	Season 2	Season 3			Season 4
75																	
76																	
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# Latitude Map

## Using a Latitude Map

This map is used to set up Astronomic Programming (page 14). Look for the area you live in then find the latitude assigned (number between the lines) to your location. This will be used to set up your local latitude.

### **TORK®** ASTRONOMIC LATITUDE ZONES



Section 4 - Examples

## Notes

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Fax (610) 282-3090

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